Southeastern Federal Power Alliance



Incremental Decay in Energy March 11, 2014

- Hydropower customers observations from our review of the
 - Buford Original Project Data, 1996 Rehab Study and the 11th Circuit Report
 - Allatoona Water Control Manual (March 2013)
 versus Rehab Study v3

- Hydropower customers observation
 - Variations in energy values from Study A to Study B for each project
- □ Each study -
 - Starts from a new set of energy values;
 - Defines these new values as baseline; and,
 - Then calculates changes from this new baseline reference to the alternative rather than the original project baseline.

- □ Examples Using Buford Data
 - Original Project Data 199,970 MWh defined as average annual energy (from Page xiii of the 1996 Rehab Study)
 - 1996 Rehab Study: No Action Alternative Somewhere between 140,505 (Table 5-5 Rehab Study Base Condition) and 148,000 MWh (Rehab Study Page 5, para. 2.3)
 - What are the reasons for these differences?
 - Incremental decay from 199,970 to 148,000 to 140,505
 MWh

- Proposed Action Alternative for the 1996Rehab Study
 - Study identifies 160,494 MWh as the new energy available after the Rehab project
 - 2012 Report to the 11th Circuit Court 122,500 MWh is the baseline
 - Incremental decay from 160,494 to 122,500 MWh
 - Further incremental decay comparing the difference between 199,970 and 122,500 MWh

- Dependable Capacity versus Marketed Capacity
- □ Dependable Capacity Original Project Data
 - Installed Capacity at
 - □ Unity Power Factor 110 MW
 - □ At 90% Power Factor 99 MW
 - □ At Rated Net Head 86 MW

- □ Dependable Capacity 1996 Rehab Study
 - No Action Alternative 99.27 MW
 - Proposed Alternative 123.53 MW
 - What are the drivers for these differences?
- Marketed Capacity 11th Circuit Hydropower Report
 - Marketed 105 MW
 - Installed 125 MW
 - No change from "Current Operations" to Proposed Alternative

□ Hydropower Customer's Perspective

- Uncertain whether these variations have be studied or defined properly;
- Possible lack of proper analysis being conducted for each incremental change compared to Original Project Data during alternate analysis;
- Storage was not removed as a result of storage being transferred to water supply in any of the calculations; and,
- Assumption that the total Conservation Storage is available for hydropower when it is not.
 - The storage transferred to water supply is not available at any time for use by any purpose other than water supply.